

# RZ1-K

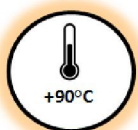
## Cablu de energie cu izolatie de polietilena reticulata si manta termoplastica fara halogeni



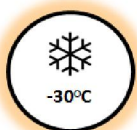
## Flexible power cable with cross-linked polyethylene insulation and halogen-free thermoplastic sheath



0.6/1 kV



+90°C



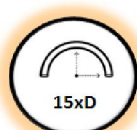
-30°C



LSOH



IEC 60332-3-24  
cat. C



15xD



MIN -5°C



RoHS  
COMPLIANT

**Standard de fabricatie:** SR HD 604 S1; IEC 60502-1;  
**Tensiune nominala  $U_0/U(U_m)$ :** 0.6/1(1.2) kV

### Domeniul de utilizare

Cablurile sunt utilizate pentru transportul energiei electrice la statii de putere.

Cablurile pot fi pozate in spatii inchise si deschise, in paman, in canale, in beton.

**Temperatura conductorului de cupru in functionarea de durata:** +90°C

**Temperatura maxima a conductorului in scurt-circuit (max 5 s):** +250°C

**Temperatura minima a cablului (masurata pe manta):**

- la montaj: -5°C
- in exploatare: -33°C

### Conductor de cupru

Conductor multifilar, cl. 5 conf. SR EN 60228

**Izolatie:** polietilena reticulata (XLPE)

**Manta:** poliolefina, tip HM4.

Cabluri sunt cu rezistenta marita la propagarea flacarii, conf. SR EN 60332-3-24/cat C

Corozivitatea gazelor de ardere conf. SR EN 50267-2-2 (SR CEI 60754-2):

- pH  $\geq 4.3$
- Conductivitatea  $\leq 10 \mu S \cdot cm^{-1}$

Densitatea fumului, conf. SR EN 61034-1

- permeabilitatea luminii:  $\geq (50-70) \%$

### Marcaj pe manta

SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, an de fabricatie, marcaj de lungime.

**Raza minima de curbura la instalare**

10 x diametrul cablului

**Forta maxima de tractiune la pozare**

50 N/mm<sup>2</sup>

### Cod de culori

- 1 conductor: negru, sau galben-verde
- 2 conductoare: galben-verde, negru, pt sect >10mm<sup>2</sup>
- 3 conductoare: galben-verde, albastru, maro
- 4 conductoare: galben-verde, maro, negru, gri
- 5 conductoare: galben-verde, albastru, maro, negru, gri

**Standard:** SR HD 604 S1; IEC 60502-1  
**Rated voltage  $U_0/U(U_m)$ :** 0.6/1(1.2) kV

### Applications

Power supply to power stations

The cables can be installed in open or confined areas, under ground, in sewers, in concrete.

**Conductor temperature in long-run operation:** +90°C

**Max. conductor temperature in short-circuit (max 5 s):** +250°C

**Minimum cable temperature (measured on the sheath surface):**

- during installation: -5°C
- in operation: -33°C

### Copper conductor

Flexible conductor, cl. 5 according to SR EN 60228

**Insulation:** crosslinked polyethylene (XLPE)

**Sheath:** polyolefin, HM4 type.

Extra flame retardant cables according to SR EN 60332-3-24/ C category

Corrosivity of gases evolved according SR EN 50267-2-2 (SR CEI 60754-2):

- pH  $\geq 4.3$
- Conductivity:  $\leq 10 \mu S \cdot cm^{-1}$

Smoke density according SR EN 61034-1

- Light permeability:  $\geq (50-70) \%$

### Sheath marking

SC ELECTROPLAST SA, cable symbol, operational voltage, manufacture year, length marking.

Min. bending radius at installation

10 x cable diameter

**Max. tensile strain at installation**

50 N/mm<sup>2</sup>

### Color coding

- 1 conductor: black or yellow-green
- 2 conductors: yellow-green, black for sect >10 mm<sup>2</sup>
- 3 conductors: yellow-green, blue, brown
- 4 conductors: yellow-green, brown, black, grey
- 5 conductors: yellow-green, blue, brown, black, grey

## RZ1-K



**Cablu de energie cu izolatie de polietilena reticulata si manta termoplastica fara halogeni**

**Flexible power cable with cross-linked polyethylene insulation and halogen-free thermoplastic sheath**

Tipodimensiune cablu	Diam max al sarmei de Cu	Grosime radiala izolatie	Grosime radiala manta	Rezistenta electrica max, la 20°C	Diametru Exterior	Masa inf
<i>Cable size</i>	<i>Max wire diameter</i>	<i>Radial insulation thickness</i>	<i>Radial sheath thickness</i>	<i>Max. resistance at 20°C</i>	<i>Outer diameter</i>	<i>Mass inf</i>
	mm	mm	mm	Ω/km	mm	kg/km
1x16	0.4	0.7	1.2	1.21	9.5	196
1x25	0.4	0.9	1.2	0.780	11.2	287
1x35	0.4	0.9	1.2	0.554	12.6	391
1x50	0.4	1.0	1.2	0.386	14.7	537
1x70	0.5	1.1	1.3	0.272	16.9	754
1x95	0.5	1.1	1.3	0.206	19.1	979
1x120	0.5	1.2	1.4	0.161	20.8	1196
1x150	0.5	1.4	1.4	0.129	23.4	1466
1x185	0.5	1.6	1.5	0.106	26.0	1786
1x240	0.5	1.7	1.5	0.0801	29.2	2291
2x1.5	0.25	0.7	1.2	13.3	9.0	120
2x2.5	0.25	0.7	1.2	7.98	10.0	156
2x4	0.3	0.7	1.2	4.95	11.0	200
3x1.5	0.25	0.7	1.2	13.3	9.3	133
3x2.5	0.25	0.7	1.2	7.98	10.3	177
3x4	0.3	0.7	1.2	4.95	11.4	229
3x6	0.3	0.7	1.2	3.30	12.7	305
3x10	0.4	0.7	1.3	1.91	15.8	483
3x16	0.4	0.7	1.3	1.21	18.6	716
3x25	0.4	0.9	1.4	0.780	25.1	1057
4x2.5	0.25	0.7	1.2	7.98	11.4	217
4x4	0.3	0.7	1.2	4.95	12.6	290
4x6	0.3	0.7	1.2	3.30	14.1	388
4x10	0.4	0.7	1.3	1.91	17.7	618
4x16	0.4	0.7	1.4	1.21	20.8	914
4x25	0.4	0.9	1.4	0.780	25.1	1370
5x1.5	0.25	0.7	1.2	13.3	11.0	193
5x2.5	0.25	0.7	1.2	7.98	12.4	261
5x6	0.3	0.7	1.3	3.30	15.6	476
5x10	0.4	0.7	1.3	1.91	19.3	751
5x70	0.4	1.1	1.7	1.21	37.4	5413